CIVIL TECH LABS
#.5, 1st Cross, Srinivasa Colony, Mission Road, Bangalore - 560 027
Ph: 080 - 41142867, Email: civiltechlabs@gmail.com

# TEST REPORT

## COMPRESSIVE STRENGTH TEST ON CONCRETE CUBES

| | |
|---|---|
| **Name & Address of the Customer** | AEE, Yelahanka Sub Division, BBMP |
| **Name of Work** | Improvements to roads and drains at Suzuki layout and shivanahalli in Ward No. 01 of Yelahanka Sub Division. |
| **Name of Agency** | Sri. T. C. Shankarappa |
| **Grade of Concrete** | M-20 |
| **No. of cubes tested** | 3 |
| **Dimension of Specimen** | 150mmx150mmx150mm |
| **Cross Sectional Area** | 22500 $mm^2$ |
| **Technical Reference** | IS: 516-1959 (Reaffirmed 2013) |

| Sl. No. | Identification | Date of Casting | Date of Testing | Age at test (Days) | Weight (Kg) | Failure Load (KN) | Compressive Strength ($N/mm^2$) | Avg Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|
| 1 | CC Work | 18/01/2015 | 15/02/2015 | 28 | 8.17 | 475 | **21.11** | **21.33** |
| 2 | | | | | 8.18 | 480 | **21.33** | |
| 3 | | | | | 8.20 | 485 | **21.56** | |

**Note:**

1. The results relate only to the items tested.
2. Report shall not be reproduced except in full, without the written approval of the lab.
3. Any correction invalidates this report.
4. The results are based on the test conducted on samples supplied by the customer.

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# TEST REPORT

## TEST ON COARSE AGGREGATES 20mm ↓ Graded Ref:IS:383/2386

| | |
|---|---|
| **Name & Address of the Customer** | AEE, Yelahanka Sub Division, BBMP |
| **Name of Work** | Improvements to roads and drains at Surabhi layout and shivanahalli in Ward No. 01 of Yelahanka Sub Division. |
| **Name of the Agency** | Sri. T. C. Shankarappa |
| **Date of Testing** | 16/01/2015 |
| **Specific Gravity** | 2.62 |
| **Water Absorption in %** | 0.33 |

| IS Sieve Designation (mm) | Sieve Analysis (% Passing IS Sieve) | Grading Requirement as per IS:383-1970 (Reaffirmed 2011) | Remarks |
|---|---|---|---|
| 40 | **100** | 100 | **Satisfies the requirement** |
| 20 | **97.4** | 95-100 | |
| 10 | **34.2** | 25-55 | |
| 4.75 | **6.8** | 0-10 | |

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# TEST REPORT

## TEST ON FINE AGGREGATES Ref:IS:383/2386

| | |
|---|---|
| **Name & Address of the Customer** | AEE, Yelahanka Sub Division, BBMP |
| **Name of Work** | Improvements to roads and drains at Surabhi layout and shivanahalli in Ward No. 01 of Yelahanka Sub Division. |
| **Name of the Agency** | Sri. T. C. Shankarappa |
| **Date of Testing** | 16/01/2015 |
| **Specific Gravity** | 2.57 |

| Sample | IS Sieve designation (mm) | Sieve Analysis (% Passing IS Sieve) | Grading Requirement as per IS:383-1970 | | | | Grading Zone |
|---|---|---|---|---|---|---|---|
| | | | ZONE-I | ZONE-II | ZONE-III | ZONE-IV | |
| River Sand | 10 | 100 | 100 | 100 | 100 | 100 | II |
| | 4.75 | 94.5 | 90-100 | 90-100 | 90-100 | 95-100 | |
| | 2.36 | 83.2 | 60-95 | 75-100 | 85-100 | 95-100 | |
| | 1.18 | 74.3 | 30-70 | 55-90 | 75-100 | 90-100 | |
| | 0.6 | 46.8 | 15-34 | 35-59 | 60-79 | 80-100 | |
| | 0.3 | 24.3 | 5-20 | 8-30 | 12-40 | 15-50 | |
| | 0.15 | 8.5 | 0-10 | 0-10 | 0-10 | 0-15 | |

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## TEST REPORT

## TEST ON CEMENT

| | |
|---|---|
| **Name & Address of the Customer** | AEE, Yelahanka Sub Division, BBMP |
| **Name of Work** | Improvements to roads and drains at Surabhi layout and shivanahalli in Ward No. 01 of Yelahanka Sub Division. |
| **Name of the Agency** | Sri. T. C. Shankarappa |
| **Date of Testing** | 16/01/2015 |

| Tests | Test Method As Per IS & Apparatus | | Results | | Requirements As Per IS 8112:1989 | Remarks |
|---|---|---|---|---|---|---|
| | IS Code | Method | Value | Unit | | |
| Initial Setting Time | IS-4031 (Part-5) 1988 | VICAT | 51 | min | Not Less Than 30 Minutes | Satisfies Requirement |
| Final Setting Time | IS-4031 (Part-5) 1988 | VICAT | 482 | min | Not More Than 600 Minutes | Satisfies Requirement |
| Soundness | IS-4031 (Part-3) 1988 | LE-CHATELIER | 3 | mm | Not More Than 10 mm | Satisfies Requirement |

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**WATER ABSORBTION**

| Sl.No | Nominal Dimension(cms) | Water Absobtion (% by weight) | Average (% by Wt.) | Requirements as per IS: 2185(Part-I)2005 |
|---|---|---|---|---|
| 1 | 40x20x20 | 7.4 | 7.57 | When three samples are tested the average water absorption shall not be more than 10% by mass |
| 2 | | 7.5 | | |
| 3 | | 7.8 | | |

**BLOCK DENSITY**

| Sl.No | Nominal Dimension(cms) | Block Density (kg/cu.m) | Average (Kg/cu.m) | Requirements as per IS: 2185(Part-I)2005 |
|---|---|---|---|---|
| 1 | 40x20x20 | 1862.30 | 1862.20 | The Solid Concrete blocks used as load bearing units shall have average block density not less than 1800Kg/m³ |
| 2 | | 1861.20 | | |
| 3 | | 1863.10 | | |

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